

Session XI: Near-Term and Long-Term Solutions

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Simulation Based Acquisition Issues

- **Measure of Effectiveness**
 - **Loss Exchange Ratios (LERs)**
- **Cost and Type of Simulations**
- **Fidelity of Simulations**
- **No standardized simulations for use in decisions**
- **Speed, fidelity and various models precluded simulation analysis of entire battlefield**
 - Deep Missions**
 - Close Battle**
 - Communications**
 - Logistics**
- **User acceptance that simulation gave accurate information**
 - Simulation vs. Actual demonstration**

Simulation Based Acquisition Solutions

- **Battlelab and Testbed Development**
 - **Battalion Level Exercises possible in Simulation**
 - **Complete Distributed Interactive Systems allow linkage to other sites**
 - **Cost reduced drastically from deployment and rotation to NTC**
- **Army Warfighting Experiments proving successful**
- **Cost of simulations reduced with emergence of PC based simulations**
- **Speed of simulations increasing with Fiber Optic connections**
- **Working Groups established that are addressing and solving issues**
 - **Non-Kill Contributions: Reaction Time, Maneuver Space, Flow of Battle**
 - **Accurate system simulation models: Radar, FLIR, Weapon Systems**
- **Wider acceptance of simulations**
 - **Greater user familiarity of computers**
 - **Greater fidelity within simulations**



BAT Teaming and Acquisition Reform

Initiatives that worked:

- Coordinated long range test planning via a System Evaluation Program Plan (SEPP) permitted the full spectrum development and verification application of the simulation validation process.
- Test readiness preparations were iterated to a team based approach that ultimately worked well. The only formal delivery was a TRR package, yet the customer had access to all day to day activities during build and test.
- Test analysis was greatly enhanced by the adoption of a customer/contractor/SETA team to perform the initial assessment of flight tests.

Initiatives that are frustrating:

- The government oversight team is in general larger than the contractor team.
- Team member vs watchdog is required for full reform.
- Need to delegate decisions for a specific program down to the PM.